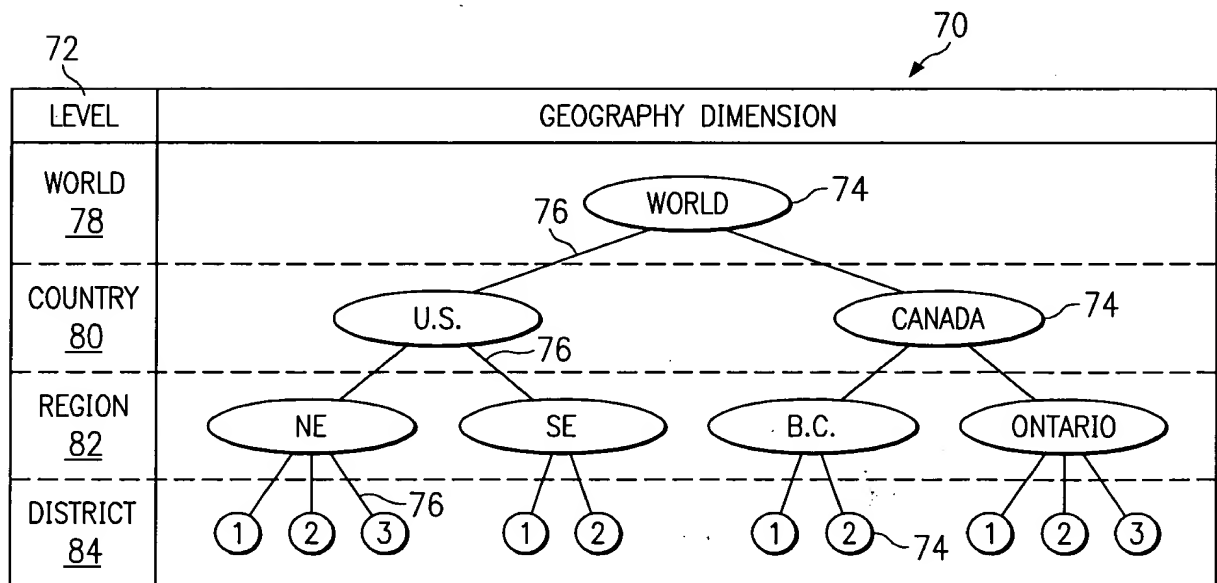
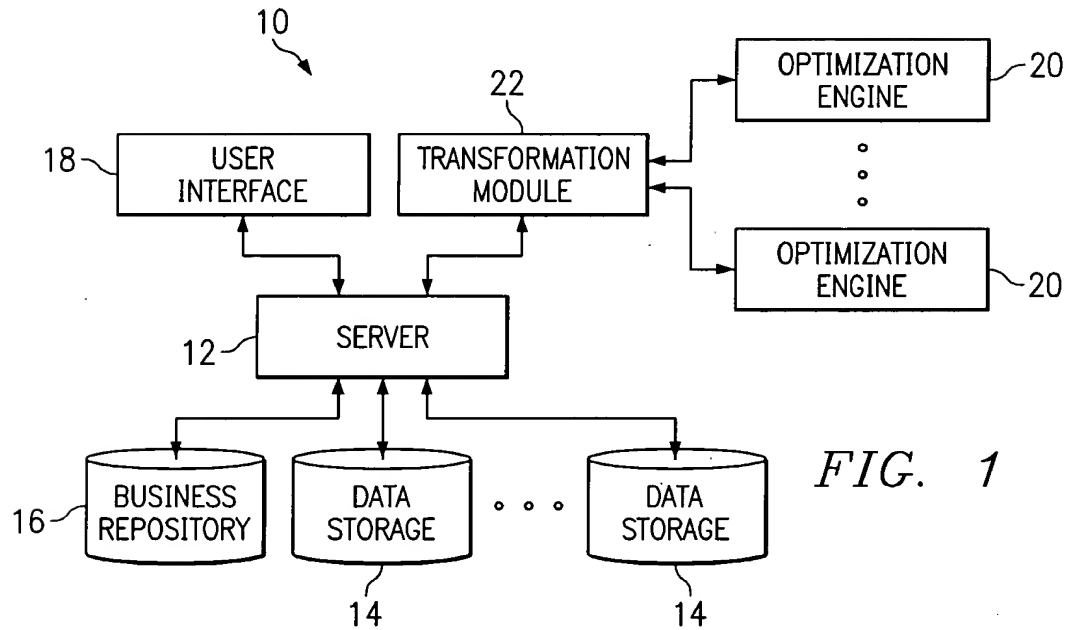
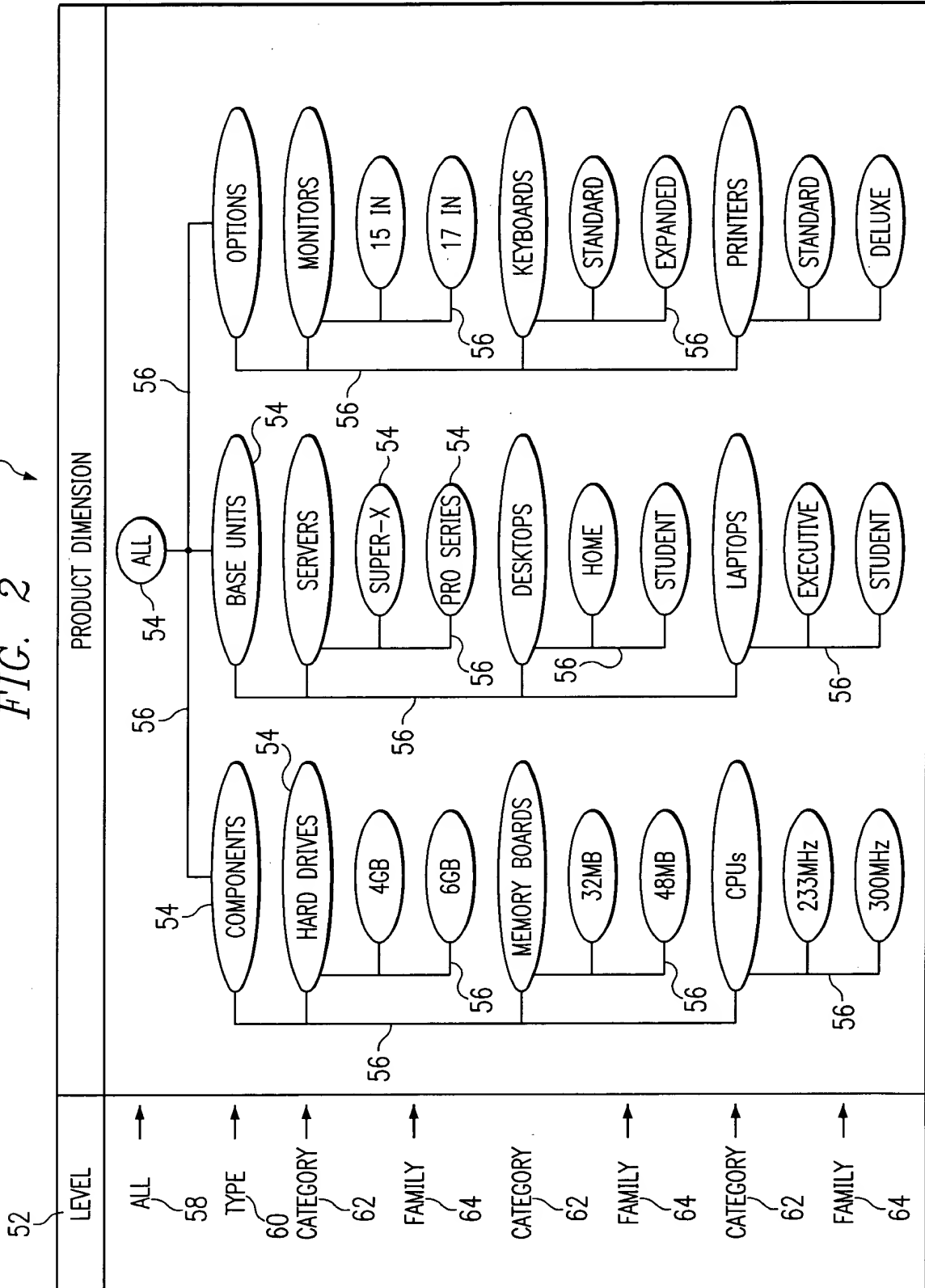


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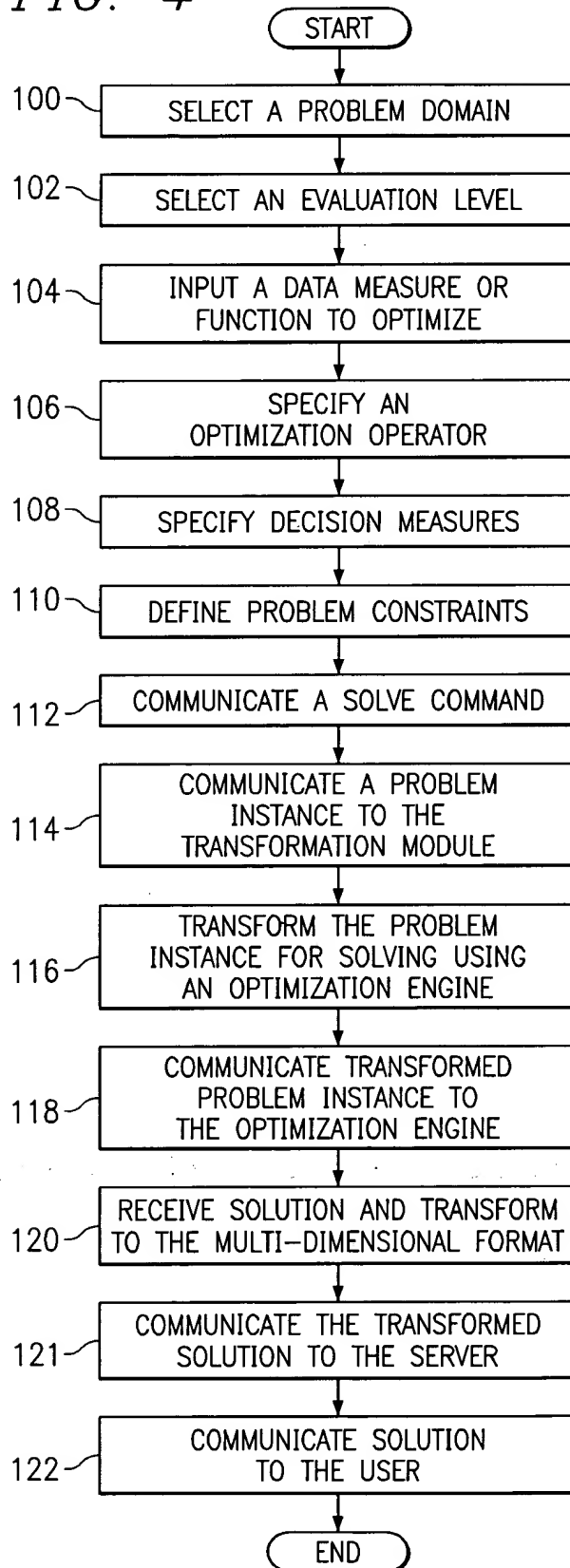
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FIG. 2



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FIG. 4



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Problem Instance **Problem Structure** **Constraints** **Functions**

Problem Instance Information

Name: 218

Problem Structure: 214

Decision Measures:

Available Measures

UnitPrice
UnitCost 208

Selected Measures

Sales 210

Show Named Problem Structures

Problem Scope:

Dimension **Domain** **Evaluation Level**

Product: All_Products 204 Item_level 206

Time: All_Times 204 Month_level 206

Location: World 204 City_level 206

Data Model 202

Problem Instances

Inst_1
Inst_2
Inst_3
Inst_4
Inst_5
Inst_6
Inst_7 220

Product

☐ All_Products
☐ Components
☐ Base Units
☐ Options

Time

☐ All_Times
☐ 2000
☐ 2001

LOCATION

☐ World
☐ U.S.
☐ N.E.
☐ S.E.
☐ Canada
☐ B.C.
☐ Ontario

Buttons: Save, Edit, Delete, Solve, New, Edit

FIG. 5

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Problem Instance Problem Structure Constraints Functions

ProblemStructure Information

Name: Struct_5 232

Objective Function: max 240

Member ConstraintSets:

238 236 238 Edit

$((UnitPrice@() * Sales@()) - (Cost@() * Sales@()))$

242

Sales@ (Product, All_Times, Location) <= 10000
Sales@ () >= 1
Sales@ (Laptop, All_Times, Location) >= 10
Sales@ (Laptop, All_Times, Location) <= 20

246 244

Delete Edit New

Show Named ConstraintSets
Show Named Functions

Save Delete

ProblemStructure Information

Struct_1
Struct_2
Struct_3
Struct_4
Struct_5
Struct_6
Struct_7

234

FIG. 6

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Problem Instance Problem Structure Constraints Functions

Constraint Set Information

Name: CS_3

Member Constraints:

Sales@(Product,All_Times,Location)<=10000
Sales@(>=1
Sales@(Laptop,All_Times,Location)>=10
Sales@(Laptop,All_Times,Location)<=20

278

272

282

Delete Edit New

Show Named Constraints

Save Delete

ConstraintSet

CS_1
CS_2
CS_3
CS_4
CS_5

274

Constraints

Comp_Rep_Sales_Bo
DTS1_Relative_Boun
Family_Bound_Ex
Laptop_Sales_Lower
Sales_Laptop_Upper
Total_Sales_Bound

276

FIG. 7

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Problem Instance Problem Structure Constraints Functions

ConstraintSet

- CS_1
- CS_2
- CS_3
- CS_4
- CS_5

Constraints

- Comp_Rep_Sales_Bo
- DTS1_Relative_Boun
- Family_Bound_Ex
- Laptop_Sales_Lower
- Sales_Laptop_Upper
- Total_Sales_Bound

Constraint Information

Name: Family_Bound_Ex 292

Left Hand Function: Sales@() 296

Relational Operator: >= 298

Right Hand Function: 10 300

Replicable: ☒ Conditional ☐

Replication Pattern: Exhaustive 302

Show Named Functions

Save Delete

FIG. 8

290

294

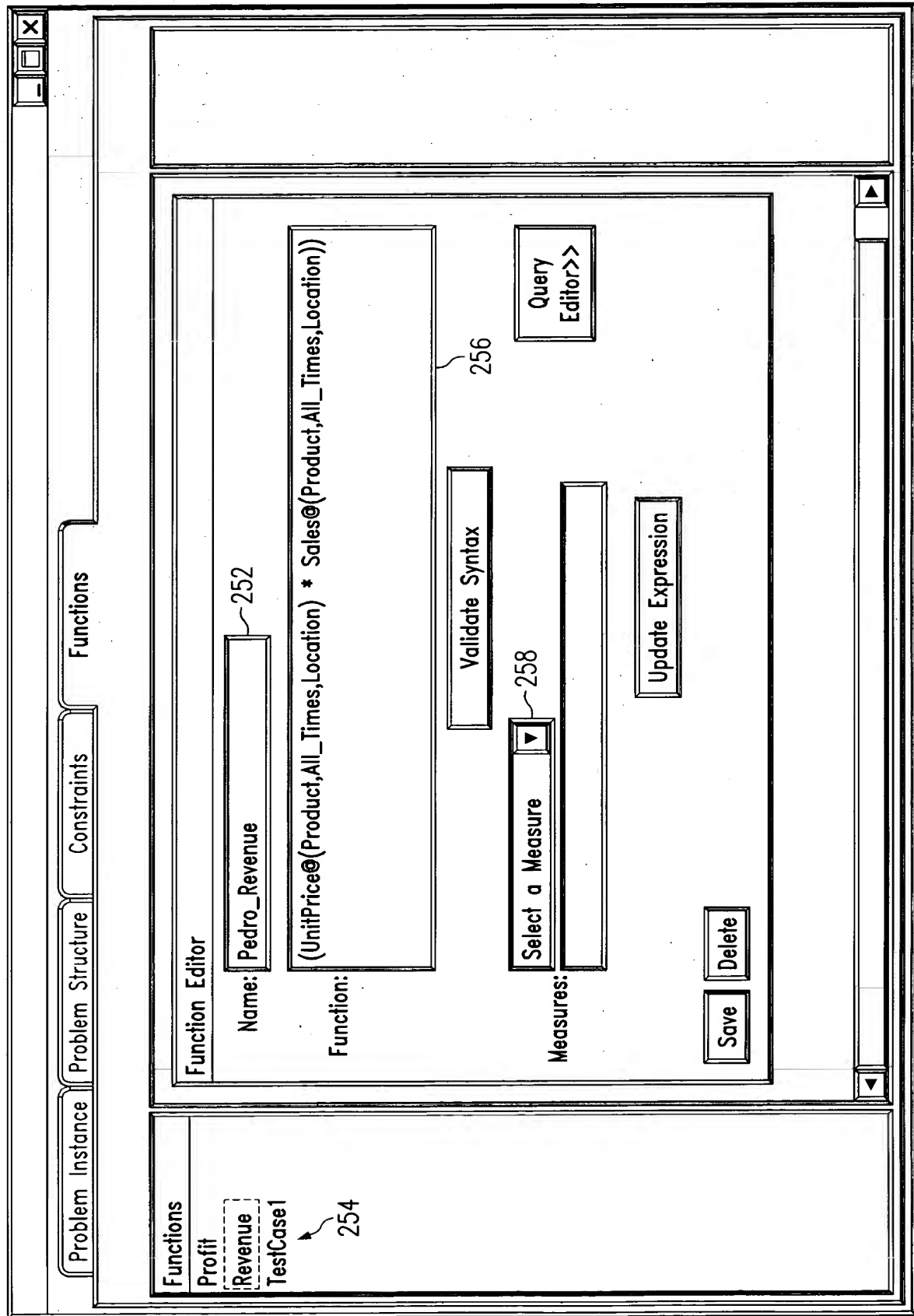


FIG. 9